

# ART

01011/01012 **Art 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

To develop attitudes and skills towards artistic and human values based on the concepts of visual communication and expressions, students will experience visual elements and design principles through a sequential arrangement of problems utilizing selected techniques and art media. Course work includes drawing, color theory, painting, printmaking, two-dimensional design, and three-dimensional design. It also provides a context in which the student may see the relationship of his work to the continuum of historical to contemporary art. Students will also study how visual arts interrelate with the other arts. This course satisfies the district's fine arts graduation requirement.

01110 **Jewelry 1**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Division Head Approval

Combining the design principles learned in Art 1 with an introduction to the basic construction techniques and processes of jewelry making, students in Jewelry 1 will explore traditional and contemporary approaches to jewelry making.

01120 **Jewelry 2**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 01110

Designed to allow students to further explore the possibilities of jewelry making, Jewelry 2 exposes students to more advanced processes and techniques while encouraging them to become more independent in their choice of material and product.

01130 **Jewelry 3**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 01120

This course emphasizes jewelry design and the introduction of various technical strategies necessary to carry out its construction.

01140 **Sculpture 1**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Division Head Approval

This first level exploration of three-dimensional form is a means of expression and communication to reinforce basic art knowledge. Through the introduction and exploration of new media, skills, and techniques the student has the opportunity to develop and document a personal statement. Exposure to traditional and contemporary sculpture techniques will give context to the visual statement.

01150 **Sculpture 2**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 01140

The second level sculpture course provides an opportunity for the student to focus on a particular technique or material in the exploration of a personal statement. Additional methods and materials may be introduced at the discretion of the teacher.

01160 **Sculpture 3**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 01150

The third level sculpture course expects an in-depth exploration of the student's ability to individualize and focus on the acceptance of sculptural entity as a manifestation of self, concept, media, and technique.

## ART

01220	<b>Photography 1</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: None			
Employing design principles and visual elements, students will explore personal imagery and digital imaging. Camera, film, and darkroom processes and procedures will be the foundation of this class. This course satisfies the district's fine arts graduation requirement.			
01230	<b>Photography 2</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 01220			
This course continues exploration of personal imagery while incorporating advanced darkroom techniques, alternative darkroom methods, and computer processes into student's photography.			
01240	<b>Photography 3</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 01230			
This studio-based course is designed for the motivated student who is interested in further exploration of the art of photography. The class offers students the opportunity to advance their technical skills in traditional photography and digital imaging. Students will continue to develop a personal direction in their work.			
01250	<b>Art Survey</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This course offers students a hands-on art experience. In this abbreviated version of Art 1, students will receive instruction in drawing, painting, and three-dimensional art. Students will also study how visual art interrelates with the other arts. This course meetings the district's fine arts graduation requirement.			
01260	<b>Graphic Arts Design</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This course combines study in visual art and graphic arts. The visual art component of the class explores two and three-dimensional design through a wide range of media including drawing, painting, jewelry, sculpture, and computer imaging. The graphic arts component will address technologies employed in the graphic arts field, ranging from layout to production printing. This course is offered in conjunction with Graphic Arts Design (06440). This course satisfies the district's fine arts graduation requirement.			
01270	<b>Art Portfolio 1</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: Consent of Instructor			
This course is designed for advanced art students (mainly at the senior level) who wish to compile a portfolio of selected representational pieces of their work to fulfill college or technical art school entry requirements. Students will benefit from instructor assistance and expertise in developing a visual presentation of their artistic potential and range of capabilities.			
01280	<b>Art Portfolio 2</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: Consent of Instructor			
This course is intended for advanced art students (mainly at the senior level) who wish to compile a portfolio of selected representational pieces of their work to fulfill college or technical art school entry requirements. Students will benefit from instructor assistance and expertise in developing a visual presentation of their artistic potential and range of capabilities.			

# ART

01291/01292 **AP Studio Art (2-D, 3-D, Drawing)**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: Consent of Instructor

This studio-based class is designed for the highly motivated and talented student who is interested in the practical art experience. The class offers high school students an opportunity to take a challenging college level course which focuses on more sophisticated concepts and techniques. Students have the option of submitting one of three different portfolios, Drawing, 2-D, or 3-D Design.

01390 **Advanced Imaging 1**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: Three Semesters of Art

This course is an interdisciplinary course where advanced art and photography students create images combining traditional forms of art with digital imagery from the computer. Students will learn the beginning levels of Adobe Photoshop and Fractal Painter with emphasis on the creative development of images.

01400 **Advanced Imaging 2**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 01390

In Advanced Imaging 2, students will further their development of interdisciplinary art using the computer as the primary tool for creating images. Students will learn Hypertext Mark-Up Language (HTML), which is the basis of WWW authoring. They will create multimedia art that integrates text, images, sound, and video and explore advanced technology concerns such as layering, sequencing of images, digital tablet drawing, and sound applications. Experimental collaboration with other departments and other District 214 schools will be explored via Intra-Internet connections. Advanced Imaging 2 emphasize personal development, artistic vision, and developing new ways of expression.

01410 **Introduction to the Fine Arts 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

Exploring the imagination by emphasizing problem-solving and critical and creative thinking is the focus of this course. Through the study of visual art, dance, drama, and music students will become more aware of their own and other cultures which create the human mosaic. In the process, students will become more discriminating consumers and creators of fine art. (At JHHS - for deaf and hard-of-hearing education students only.) This course satisfies the district's fine arts graduation requirement.

01441/01442 **AP Art History**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: Instructor/Division Head Approval

The advanced placement offering in Art History is designed to provide the same benefits to secondary school students as those provided by an introductory college course in art history; an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. In the course, students examine and critically analyze major forms of artistic expression from the past and present from a variety of cultures. While visual analysis is the fundamental tool of the art historian, art history also emphasizes understanding works in context, considering issues as patronage, gender, and the functions and effects of works of art. This course satisfies the district's fine arts graduation requirement.

01450 **Art Imaging 1**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Placement

This is a beginning art course that teaches drawing, color theory, and the elements and principles of design. Students will use these tools in creative and inventive ways to communicate their visual ideas. The students use technology such as digital cameras, slide scanners, and flat bed scanners to digitize their original photographs, drawings, and designs. They also use Photoshop and Illustrator to manipulate and enhance their digital images. Students in this course create personal and original works of art. This course satisfies the district's fine arts graduation requirement.



# BUSINESS EDUCATION

05510	<b>Information Processing</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
Students will develop introductory information technology competencies in the areas of keyboarding, word processing, computer usage, email, the Internet, document/file management, spreadsheet, database, presentation, and multimedia. This course includes introduction to computers information. Students who successfully complete this class will fulfill the district information processing graduation requirement.			
05551/05552	<b>College Accounting</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: None			
This course presents accounting as an information system that produces summary financial statements primarily for users external to business. This course emphasizes reporting of the effects of transactions and other economic events on the financial condition and operating results of a business. Topics include: basic accounting concepts, financial statements, accrual and cash basis, the accounting cycle, monetary asset, inventories, fixed assets, current and long term liabilities, and owner's equity. This course assumes a corporate form of organization. This course requires dual enrollment in Introduction to Managerial Accounting at Harper College.			
05610	<b>Accounting Level 1</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: None			
This introductory accounting course exposes students to the basics of accounting and its practices and procedures. Students examine accounting theory, methods, and business practices. Students will reinforce their learning by using computer-assisted programs.			
05620	<b>Accounting Level 2</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 05610			
This course is designed to build on the Accounting Level 1 (561) curriculum. Students continue to explore accounting practices and procedures and reinforce their learning by using computer-assisted programs. Completing Accounting Levels 1 and 2 is important for students planning to major in business.			
05641/05642	<b>College Business</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: None			
This course presents marketing as a focus on methods involved in distribution of goods and services. Roles and functions of marketing institutions in business system. Product, price, promotion, and distribution channel policies. Topics include: marketing mix, marketing research, market segmentation, consumer behavior, industrial goods, market planning, sales promotion techniques, break-even analysis, global marketing, careers in marketing, economic systems, and business ethics. Students who successfully complete the second semester of this course will receive Harper College transcribed credit for MKT 245.			
05651/05652	<b>College Management</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: None			
This course presents the nature of business and the environments in which it operates. Forms of business ownership, introduction to operative and facilitating facts of business operation, management, marketing, accounting, statistics, business law, finance, investments, insurance, and labor-management relations. This is the introductory management course (MGT 111) taught at Harper College.			



## CAREER EDUCATION

06511/06512    **Cooperative Work Training 1**    Rec Grade Lvl: 11-12    Credit/Sem: 0.5

Prerequisite: 16 Years Old, Consent of Coordinator, and Concurrent Enrollment in 06521/06522

Classroom instruction will include employment search techniques, interview skills, career exploration, and the development of a post-secondary plan. Throughout the course instruction will emphasize problem solving, decision-making, communication, and management issues that thread their way through the work place. Completion of this course will satisfy the consumer education requirement. As a result, this course will also concentrate on banking, insurance, credit, housing, taxes, automobile purchasing, investments, and financial planning. Students also enrolled in Cooperative Work Training Internship 1 (06521/06522) will earn an additional work credit.

06521/06522    **Cooperative Work Training Internship 1**    Rec Grade Lvl: 11-12    Credit/Sem: 0.5

Prerequisite: Concurrent Enrollment in 06511/06512

Cooperative Work Training Internship 1 (C.W.T. 1) is practical work training that takes place in our community businesses. Students will experience on-the-job training at various entry levels and semi-skilled occupations. Students will work a minimum of 12 hours per week at businesses approved by the teacher coordinator. The coordinator will make periodic visits to employment sites to monitor each student's progress.

06531/06532    **Cooperative Work Training 2**    Rec Grade Lvl: 12 or Consent of    Credit/Sem: 0.5  
Coordinator

Prerequisite: 06522 and Concurrent Enrollment in 06541/06542

This course is an extension of Cooperative Work Training Internship 2 (C.W.T. 2) focusing on vocational review related to various job skills required for success in today's working environment. It promotes ethical standards for both personal and business involvement including respect for others' privacy, dignity, and opinions. This class specifically emphasizes lifelong learning skills and career options for graduating seniors.

06541/06542    **Cooperative Work Training Internship 2**    Rec Grade Lvl: 12 or Consent of    Credit/Sem: 0.5  
Coordinator

Prerequisite: Concurrent Enrollment in 06531/06532

Cooperative Work Training Internship 2 (C.W.T. 2) is practical work training that takes place in our community businesses. Students will experience on-the-job training at various entry level and semi-skilled occupations. Students will work a minimum of 12 hours per week at businesses approved by the teacher coordinator. The coordinator will make periodic visits to employment sites to monitor each student's progress.

06590    **Community Resources**    Rec Grade Lvl: 10-12    Credit/Sem: 0.5

Prerequisite: None

This program provides educational experiences not readily available in the classroom. Resources including businesses, industries, professionals, public service, governmental and private social agencies provide on-site career exploration and community service opportunities. Applications are made with the community resource coordinator. Transportation will be made available.

06631/06632    **Career Education Internship 2**    Rec Grade Lvl: 12    Credit/Sem: 0.5

Prerequisite: Concurrent Enrollment in 06621/06622

The Inter-Related Career Education student receives on-the-job training at a qualified community resource in an occupation of his/her choice. The local firm or training station hires the student as a part-time employee and provides the practical training necessary to make the student proficient in that occupation. The coordinator will make periodic visits to the employment site to monitor the student's progress.

## CAREER EDUCATION

06640      **Medical Terminology, HSC 112**      Rec Grade Lvl: 12      Credit/Sem: 0.5

Prerequisite: 10180

Emphasizes the origin and the basic structure of medical words, including prefixes, suffixes, word roots, combining forms and plurals. Offers pronunciation, spelling, and definition of medical terms based on the body systems approach. Emphasis on rendering a professional vocabulary required for work in the health care field.

06771/06772      **Nail Technology**      Rec Grade Lvl: 12      Credit/Sem: 1

Prerequisite: Application and Interview

This 350 hour state approved licensing course is for students interested in the nail technology field or as a nail technology business operator. Upon successful completion of all goals and passing required tests, the student is eligible to take the state board exam for State of Illinois nail technology certification. This class requires a substantial fee for materials and state registration. Transportation will be available upon request.

06781/06782      **Cosmetology - Empire School of Beauty**      Rec Grade Lvl: 12      Credit/Sem: 1

Prerequisite: Application and Interview

Cosmetology is the first year (750 hours) of a 1500-hour program. Township High School District 214 is financially responsible for the first 750 hours of class. Upon graduation from District 214, students will be financially responsible for the remaining 750 hours to complete the program. This course is for students who are interested in a career in Cosmetology or as a beauty salon operator. The program is a joint effort between both Township High School District 214 and Empire School of Beauty in Arlington Heights, Illinois. This course requires a substantial fee for materials. Transportation will be provided upon request.

06791/06792      **Power-On-Site Training**      Rec Grade Lvl: 11-12      Credit/Sem: 1

Prerequisite: 06062 and Interview Selection Process

This program provides technical automotive training and shop work in a commercial enterprise under the direction of a service manager. Training experience includes two hours of work each day with an experienced mechanic or parts person employed by the place of business. A teacher-coordinator will place the student as well as visit the training station to monitor and evaluate the student's progress.

09641/09642      **Industrial CNC Manufacturing**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: 09631/09632

This course is designed for students who may be pursuing a career in precision metalworking or related computer machining applications and covers advanced applications of precision machining theory and practice. It includes lathes, O.D. and I.D. grinders, tool grinders, and milling machines. Students study production machining, feed and speed application, and quality control techniques and will become fluent in operating Computer Numerical Control (CNC) equipment. Students enrolled in this course may work towards level two certification with the National Institute for Metalworking Skills Inc. (NIMS). A local business advisory board will provide students with information on real life experiences, job observation, and job applications. This class meets at Wheeling High School.

09731/09732      **Preparatory Work Orientation 1**      Rec Grade Lvl: 9      Credit/Sem: 0.5

Prerequisite: None

This course is designed as a freshman level class. It is an introduction to the world of work. The focus is on job awareness and how the student fits into the work community. Areas to be addressed include vocabulary, want ads and abbreviations, job applications, and job expectations and qualifications.

## CAREER EDUCATION

09741/09742    **Preparatory Work Orientation 2**    Rec Grade Lvl: 10    Credit/Sem: 0.5

Prerequisite: None

This course is designed as a sophomore level class. It is a continuation of Preparatory Work Orientation 1. Additional areas to be addressed include: why people work, job interests, and job finding skills.

09751/09752    **Preparatory Career/Vocation**    Rec Grade Lvl: 11    Credit/Sem: 0.5

Prerequisite: None

This course is designed as a junior level class. The focus is on work behaviors and pre-vocational skills. Some of the areas addressed include: getting along with the boss and coworkers, getting to work on time, following directions, and leaving personal problems at home.

09761/09762    **Preparatory In School Work**    Rec Grade Lvl: 11    Credit/Sem: 0.5

Prerequisite: None

This course is designed as a junior level class. The focus is on meeting job expectations. This is often the first work experience for the student. It is usually in a one-to-one work situation. Students work on such things as: getting to work on time, calling the boss when they are going to be absent, completing job task correctly and remaining on task.

09771/09772    **Preparatory Community Work**    Rec Grade Lvl: 12    Credit/Sem: 0.5

Prerequisite: None

This course is designed for the senior and fifth year student. The focus is on working at a variety of jobs, working in different types of settings, and developing an awareness of what the student might like to do in the future.

09861/09862    **Medical Science Academy**    Rec Grade Lvl: 11-12    Credit/Sem: 1

Prerequisite: Application and Interview

This is an advanced course for students interested in careers in medicine. Students alternate days of on-site experiential learning with college-level coursework in the classroom. Using a 150-minute block of time daily, this course blends topics existing in other areas of the curriculum with material to be developed specifically for this field of study. Students will play an active role in the learning process. Class topics will be determined in part by the experiences the students have on-site, and analyzed through an increased amount of classroom seminar/discussion format. In addition, students will pursue issues of personal interest. This course, taught at Prospect High School, is open to all district students.

09870    **Internship Program**    Rec Grade Lvl: 10-12    Credit/Sem: 0.5

Prerequisite: Application and Interview

The district Internship Program places students at various career sites during either the first or second semester or during the six weeks of summer school. Students chose their internship from over 25 career areas. All district internships are unpaid and students are responsible for their own transportation.

## CAREER EDUCATION

09981/09982 **Education Academy**

Rec Grade Lvl: 11-12

Credit/Sem: 1

Prerequisite: Application and Interview

This is an advanced course for students interested in careers in education. Students alternate days of on-site experiential learning with college-level coursework in the classroom. Using a 150-minute block of time daily, this course blends topics existing in other areas of the curriculum with material to be developed specifically for this field of study. Students will play an active role in the learning process. Class topics will be determined in part by the experiences the students have on-site, and analyzed through an increased amount of classroom seminar/discussion format. In addition, students will pursue issues of personal interest. This course, taught at the Forest View Educational Center, is open to all district students.

10060 **Introductory Electronics (Harper College)**

Rec Grade Lvl: 11-12

Credit/Sem: 1

Prerequisite: None

This course introduces students to laboratory instruments, circuit components, basic measuring techniques, and basic circuits used as building blocks in any electronic system. Students successfully completing this course will receive one high school credit and four semester hours of Harper College credit. Students should consult their counselor for meeting times. Transportation will be provided to classes held at Harper College. Transportation will NOT be provided to/from Harper College for classes that begin after 3:30 p.m.

10070 **Industrial Control Systems (Harper College)**

Rec Grade Lvl: 11-12

Credit/Sem: 1

Prerequisite: 10060

Students in this class will study resistive circuits involving electronic devices. Students will explore volt-ampere characteristics and the physics of diodes, transistors, and other semiconductor devices with emphasis on biasing and the setting of DC levels to make the device function. Students successfully completing this course will receive one high school credit and three hours of Harper College credit. Students should consult their counselor for meeting times. Transportation will NOT be provided to/from Harper College for classes that begin after 3:30 p.m.

10080 **Refrigeration Fundamentals (Harper College)**

Rec Grade Lvl: 11-12

Credit/Sem: 1

Prerequisite: None

This course offers career exploration along with development of job entry skills through a competency-based approach to learning. Students examine basic terminology, fundamental loss of energy behavior and transportation, description of various systems and related trouble diagnoses, and an introduction to domestic and commercial cooling and heating equipment. Students should have some mechanical aptitude or interest. A strong background in mathematics or science is not essential. This course will grant dual credit. Students successfully completing this course will receive one high school credit and four semester hours of Harper College credit. Students should consult their counselor for meeting times and days. Transportation will NOT be provided to/from Harper College for classes that

10090 **Refrigeration Systems (Harper College)**

Rec Grade Lvl: 11-12

Credit/Sem: 1

Prerequisite: 10080 with a Grade of C or Better

This course continues to develop principles and concepts learned in Refrigeration Fundamentals. Students learn about components and accessories added to basic refrigeration systems for special applications. Students will develop skills in diagnostics and trouble shooting procedures. This is a dual credit course held at Harper College. Upon successful completion, students will receive one high school credit and four semester hours of Harper College credit. Student should consult their counselors for meeting times and days. Transportation will NOT be provided to/from Harper College for classes that begin after 3:30 p.m.

## CAREER EDUCATION

10100            **Introduction to Criminal Justice (Harper College)**            Rec Grade Lvl: 12            Credit/Sem: 0.5

Prerequisite: None

In this course students will explore criminal justice agencies, their operation, objectives, and basic purpose. Students will investigate career opportunities within the criminal justice field and various types of specialties within a police department. These specialties include accident investigation, report writing and reviewing, SWAT, breathalyzer, crime scene collection of evidence, investigations, and hostage negotiations. This is a dual credit class and will receive three semester hours of Harper College credit. Transportation will be provided.

10120            **Introduction to Corrections (Harper College)**            Rec Grade Lvl: 12            Credit/Sem: 0.5

Prerequisite: 10100 with a Grade of C or Better or Consent of Instructor

This course provides the student with integrated knowledge about the corrections system through which the criminal offender is processed. Emphasis will be placed on the philosophical bases of punishment and treatment techniques in institutional and community-based programs and parole programs. Students will receive three semester hours of Harper College credit. Transportation will be provided.

10130            **Introduction Fire Science (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: None

This course provides an overview of the fire protection profession. It includes a study of career opportunities in fire protection and related fields: philosophy and history of fire protection/service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, regulations affecting the fire service, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics, fire protection systems, and fire strategy and tactics. This is a dual credit course offered at Harper College. Students will receive three (3) hours of college credit per semester. Transportation, if needed, will be provided.

10140            **Fire Behavior & Combustion (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: 10130

This course explores the theories and principles of how and why fires start, spread, and are brought under control. Students will relate the principles by which fires spread with the appropriate methods of control. This is a dual credit course offered at Harper College. Students will receive three (3) hours of college credit per semester. Transportation, if needed, will be provided.

10150            **Heating Principles (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: 10090

Heating Principles is designed to provide students knowledge regarding heating and cooling systems and to give them practical experience in identifying and troubleshooting system problems. This course is part of a sequence of courses leading to a certification in Heating, Ventilation, and Air Conditioning. This is a dual credit course offered at Harper College. Students will receive four (4) hours of college credit upon successful completion of the course. Transportation will NOT be provided to/from Harper College for classes that begin after 3:00 p.m.

10160            **Heating & Cooling Controls (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: 10150

Heating and Cooling Controls is designed to provide students knowledge regarding heating and cooling systems and to give them practical experience in identifying and troubleshooting system problems. This course is part of a sequence of courses leading to a certification in Heating, Ventilation, and Air Conditioning. This is a dual credit course offered at Harper College. Students will receive four (4) hours of college credit upon successful completion of the course. Transportation will NOT be provided to/from Harper College for classes that begin after 3:00 p.m.

## CAREER EDUCATION

10170            **Domestic Refrigeration Appliances (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: 10160

Domestic Refrigeration Appliances is designed to provide students with a comprehensive examination of the operation, problem solving, and repair of residential refrigeration appliances. This course is part of a sequence of courses leading to a certification in Heating, Ventilation, and Air Conditioning. This is a dual credit course offered at Harper College. Students will receive four (4) hours of college credit upon successful completion. Transportation will NOT be provided to/from Harper College for classes that begin after 3:00 p.m.

10180            **Introduction to the Health Care Field (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: Completion of Two Years of Science

This program is a survey course offering a broad range of information on career opportunities in the health field and available educational programs in Illinois. Participation in this course will assist the high school student in making appropriate career decisions in the health occupations. Transportation will be furnished to classes at Harper College. Students will receive two semester hours of college credit.

10190            **Health Occupations Career Observation (Harper College)**            Rec Grade Lvl: 11-12            Credit/Sem: 0.5

Prerequisite: 10180 or Concurrent Enrollment With 10180

Health Occupations Career Observation will provide students with a job shadowing experience related to the existing approved Health Occupations course that is currently offered through our Harper College Dual Credit program. Students in Health Occupations Career Observation observe selected occupations within a healthcare setting at one of our local hospitals. The students will attend sessions at the hospital under the supervision of the internship instructor and departmental specific mentors. The student must also maintain a daily documentation of activities. Students will receive one hour of college credit. Transportation will NOT be provided to/from Harper College for classes that begin after 3:00 p.m.

10200            **Nursing Assistant Training (Harper College)**            Rec Grade Lvl: 12            Credit/Sem: 1.5

Prerequisite: 16 Years Old or Older, Shared Course Coordinator Approval, & 10180 with a Grade of C or Better

The basic Nursing Assistant Training program teaches students basic nursing skills to provide direct "hands on" care of residents in long-term care and hospital settings. Students will learn the basic skills in a theory and laboratory setting prior to the clinical experience. A theory grade of 75 percent and the successful demonstration of skills are validated prior to the clinical experience in order to deliver safe, competent, quality care. Before entering the clinicals, students will need to obtain, at their own expense, required medical tests and appropriate uniforms. At all times, students are under the direct supervision of an Illinois Department of Public Health approved registered nurse. Graduates of this program are eligible to sit for the state Nurse Aide Competency Exam and

10240            **Introduction to the Hospitality Industry (Harper College)**            Rec Grade Lvl: 12            Credit/Sem: 0.5

Prerequisite: 10230

This course is a continuation of the Food Service Management program for students who have successfully completed the program classes in the previous school year. Students will continue to develop food and beverage preparation, menu planning, and business marketing and management skills. Transportation is provided. Students also spend 15 hours of non-school time per week participating in paid work site learning. Students must provide their own transportation to the work site.

10250            **Intro to Food Preparation/Production (Harper College)**            Rec Grade Lvl: 12            Credit/Sem: 0.5

Prerequisite: 10240

This is the fourth course in the Food Service Management program sequence. This course introduces basic cooking skills that can be developed to provide quality food products. Students will learn fundamentals of cooking and baking through daily assignments and production. This course will cover all aspects of the industry. Transportation will be furnished to classes at Harper College. Students also spend 15 hours of non-school time per week participating in paid work site learning. Students must provide their own transportation to the work site.

## CAREER EDUCATION

10260      **Fashion Industry Career Practicum & Seminar (HC)**      Rec Grade Lvl: 12      Credit/Sem: 0.5

Prerequisite: None

This course presents students with an overview of career and employment possibilities in the fashion business and industries. Emphasis is placed on individual career path selections through interest testing and career planning. Students will attend one hour in theory class per week on the Harper campus in the evening and participate 10 hours per week in the evening or on the weekend in a paid internship in local business. Students must provide their own transportation. Students will receive three semester hours of Harper College credit upon completion of this course. There is a fee for course materials.

10271/10272      **American Sign Language 1 & 2 (Harper College)**      Rec Grade Lvl: 12      Credit/Sem: 0.75

Prerequisite: None

This beginning level course (same as 07551/07552) introduces the student to American Sign Language with emphasis on receptive and expressive vocabulary skill development and appropriate use of grammatical structures. Students also learn about the deaf community and its culture. This course is designed for students with no previous experience in American Sign Language. A grade of "B" or better in English is recommended. This course may fulfill the foreign language entrance requirement for some colleges and universities. Students are advised to check with individual schools. This is a dual credit course offered at Harper College. Students will receive eight (8) hours of college credit per year upon successful completion of the course. Transportation will be provided if requested.



## DRIVERS EDUCATION

09650      **Driver Education Classroom**      Rec Grade Lvl: 9-12      Credit/Sem: 0.25

Prerequisite: Selection Based on Birth Date and IL Eligibility Requirement

The primary purpose of the program is to create knowledgeable traffic citizens through a multiphased, integrated system that develops competent and responsible drivers.

09660      **Driver Education Lab**      Rec Grade Lvl: 9-12      Credit/Sem: 0

Prerequisite: Selection Based on Birth Date and IL Eligibility Requirement

This course provides "behind the wheel experience" for students enrolled in the driver education program.

# ENGLISH LANGUAGE ARTS

02101/02102 **Preparatory Written & Oral Communication**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

This course offers a basic introduction to effective written and oral communication skills and is designed for students needing additional support. Course work focuses on style, structure, and language appropriate for various purposes and audiences. Students will be actively involved in research methodology, writing, and speaking. As part of the course work, the student will review basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and utilize technology to develop multimedia products and presentations.

02131/02132 **Preparatory Senior English**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: None

This year-long course is for seniors who still require development in the language arts. Course activities provide seniors with language skills that will prepare them for the work place and civic participation as well as enhance their appreciation of culture. Course readings will be drawn from a wide variety of genres including news media and nonfiction. Media studies, integrated through the course, will include projects using technology. An extensive writing curriculum will include technical and business writing and writing for personal use and civic participation. This course is recommended for students who have not yet met the Illinois State Standards in language arts. This course meets the language arts graduation requirement for grade 12.

02140 **Preparatory Language Arts & Oral Communication 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

This course is intended for students who need intensive work in language arts including increased reading decoding and comprehension skills at the elementary level. Students will also practice beginning writing skills such as writing complete sentences, letters and short reports, spelling, and grammar. The combination of this course and Preparatory Language Arts and Oral Communication 2 (02150) meets one semester of the English graduation requirement for grade 9. Upon successful completion of this course, it is recommended that students take Preparatory Language Arts and Oral Communication 2 (02150).

02150 **Preparatory Language Arts & Oral Communication 2**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

This course is intended for students who need intensive work in language arts including increased reading decoding and comprehension skills at the elementary level. Students will also practice beginning writing skills such as writing complete sentences, letters and short reports, spelling and grammar. The combination of this course and the Preparatory Language Arts and Oral Communication 1 (02140) meets one semester of the English graduation requirement for grade 9. Upon successful completion of this course, it is recommended that students take Preparatory Language Arts 3 (02160).

02160 **Preparatory Language Arts 3**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 02140 and 02150 or Equivalent, Placement

This course is intended for students who need additional work in the English language arts. It is designed to increase word analysis skills, fluency and comprehension skills as well as improving writing skills. Students will learn to write using a variety of sentence structures and write standard, well organized paragraphs. The combination of this course and Preparatory Language Arts 4 (02170) meets one semester of the English graduation requirement for grade 9. Upon successful completion of this course, it is recommended that students take Preparatory Language Arts 4 (217).

# ENGLISH LANGUAGE ARTS

02170	<b>Preparatory Language Arts 4</b>	Rec Grade Lvl: 10	Credit/Sem: 0.5
Prerequisite: 02140 and 02150 or Equivalent, Placement			
This course is intended for students who need additional work in the English language arts. It is designed to increase word analysis skills, fluency and comprehension skills as well as improving writing skills. Students will learn to write using a variety of sentence structures and write standard, well organized paragraphs. The combination of this course and Preparatory Language Arts 3 (02160) meets one semester of the English graduation requirement for grade 9.			
02191/02192	<b>Preparatory Reading</b>	Rec Grade Lvl: 9	Credit/Sem: 0.5
Prerequisite: None			
This course is designed for incoming freshman that need additional work in reading. It will focus on standards and remediation, improving students' reading comprehension using a variety of reading materials, both fiction and nonfiction. This class will assist students with study skills, test taking strategies, and note taking. This course must be taken in conjunction with Preparatory Written and Oral Communication (02101/02102).			
02230	<b>Preparatory Applied English 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: Division Head Approval			
Preparatory Applied English 1 is offered to students who need intensive work in the English language arts. Students will learn to communicate (both verbally and non-verbally) in units of attire, nutrition, health, communication, and job skills. This course will also involve a combination of traditional classroom learning, role play, and community based field experiences.			
02240	<b>Preparatory Applied English 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 02230 and Division Head Approval			
This course is offered to students who need intensive work in the English language arts with particular emphasis on the vocabulary and skills required for effective communication, successful employment, and knowledge and use of transportation and housing options. It is designed to teach and provide opportunities for practice of these necessary life skills.			
02561/02562	<b>Written &amp; Oral Communication</b>	Rec Grade Lvl: 9	Credit/Sem: 0.5
Prerequisite: Placement			
This course introduces the fundamental skills of effective written and oral communication including style, structure, and language appropriate for various purposes and audiences. Students will be actively involved in research methodology, writing, and speaking. As part of the course work, students will review basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and utilize technology to develop multimedia products and presentations.			
03010	<b>Debate</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: Placement			
This course is for students interested in the practical application of the art of public debate. Students learn and apply debate skills and study the techniques of effective argumentation. The emphasis is on critical thinking, logic, organization of ideas, case writing, scholarly research, use of evidence, refutation, and listening. This course is accepted as oral communication credit at PHS only. Credit earned in this course does not apply to the number of credits required in English without administrative approval. However, the credit does apply toward graduation.			

## ENGLISH LANGUAGE ARTS

03030	<b>Advanced Speech</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: 02540 or Consent of Division Head			
This course is designed for students interested in building their communication skills. Credit earned in this course does not apply to the number of credits required in English without administrative approval. However, the credit does apply toward graduation.			
03060	<b>Acting 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This course is for students who desire initial training in acting. The major focus is on improvisation. The course stresses activities which increase students' ability to concentrate, accentuate their sensory awareness, establish a knowledge of their relationship to the world around them, strengthen their powers of observation, and underscore their cooperation with others in solving acting problems. Students must perform as part of this course work. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation and satisfies the fine arts requirement.			
03070	<b>Acting 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 03060 or Consent of the Division Head			
Focusing on script analysis, characterization, and performance, this course is a continuation of Acting 1. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03110	<b>Journalistic Writing 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
Students will learn to interview people in order to gather and evaluate information. They will use this information to write news, sports, editorial, in-depth, and feature stories. They will also learn to write headlines and captions. Part of the course will focus on editing and proofreading stories for publication in the school newspaper or yearbook. Students will learn about the historical perspective of the American press and the legal and social responsibilities that come with the operations of school publications. Students should also enroll in Journalistic Writing 2 (03120).			
03120	<b>Journalistic Writing 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 03110 or Consent of the Division Head			
This continuation of Journalistic Writing 1 is for students interested in working on the school newspaper. Students will focus on writing advanced journalistic stories. They will design pages on desktop publishing software. In addition, course work will cover headline writing and photography skills. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03130	<b>Journalistic Writing 3</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 03120 or Consent of the Division Head			
This performance course continues student involvement in journalism through both theory and practice. Students produce the school newspaper, design and sell advertising, and study advanced journalism. Students should expect some after school work on the school newspaper. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			

## ENGLISH LANGUAGE ARTS

03140	<b>Journalistic Writing 4</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 03130 or Consent of the Division Head			
This performance course continues student involvement in journalism through both theory and practice. Students produce the school newspaper, design and sell advertising, and study advanced journalism. Students should expect some after school work on the school newspaper. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03150	<b>Yearbook 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This laboratory course teaches skills required to work in the publishing field. During this semester students learn principles of information gathering, copy writing, layout, copy fitting, photography, picture cropping, editing, word processing, and proofreading. This class emphasizes accurate and effective communication. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03160	<b>Yearbook 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 03150 or Consent of the Division Head			
Students continue to apply principles of publishing to in-depth writing and related projects. Class periods consist of both teaching and work sessions designed to perfect skills students will use in producing the school yearbook. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03170	<b>Yearbook 3</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 03160 or Consent of the Division Head			
This course serves as learning laboratories for the publication of the school yearbook. During the year, the students will become familiar with the process of planning, layout, copywriting, editing, photography, and production of a school yearbook. Class periods involve training lectures and actual working sessions. Some after school hours may be required to complete assignments. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03180	<b>Yearbook 4</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 03170 or Consent of the Division Head			
This course serves as learning laboratories for the publication of the school yearbook. During the year, the students will become familiar with the process of planning, layout, copywriting, editing, photography, and production of a school yearbook. Class periods involve training lectures and actual working sessions. Some after school hours may be required to complete assignments. Credit earned in this course does not apply to the number of credits required in English. However, the credit does apply toward graduation.			
03200	<b>Advanced Reading</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: None			
This course examines narrative and expository American, British, and world literature and broadens and refines reading and writing skills to meet the demands of college level work. Reading comprehension and flexibility are expanded through an emphasis on the techniques of speed, overview, and critical reading. This course also develops vocabulary and efficient study skills. Individualized diagnostic testing, evaluation, and student teacher conferences motivate students to increase their reading and writing standards, abilities, and speed.			





# ENGLISH LANGUAGE ARTS

03481/03482 **American Literature & Composition**

Rec Grade Lvl: 11

Credit/Sem: 0.5

Prerequisite: Placement

This course offers students the opportunity to explore and analyze the traditions, techniques, and genres of American literature. The course emphasizes writing and offers extensive instruction in the writing process. In addition, the curriculum includes usage and mechanics, analytic reading techniques, rhetorical analysis, and vocabulary development. This course fulfills the English requirement for grade 11.

03580 **Humanities/Literature 1**

Rec Grade Lvl: 11-12 or Consent of  
Division Head

Credit/Sem: 0.5

Prerequisite: None

This course examines the arts in the context of the societies that created them. Literature, sculpture, painting, architecture, music, and philosophy are studied not in isolation but as products of historical forces that shape their forms and meanings. Extensive reading, lectures, large and small group discussion, and student presentations comprise class work.

03760 **Multicultural Literature**

Rec Grade Lvl: 11-12 or Consent of  
Division Head

Credit/Sem: 0.5

Prerequisite: None

This course is a survey course designed for students who want to study the diverse contemporary literature created by the many minority groups in the United States. The literature will focus on the needs, concerns, and experiences of Afro-Americans, Asian Americans, Native Americans, Latin Americans, and American women supplemented by works of other ethnic and cultural minority groups in America. Students read both fiction (novels, short stories, poetry, and drama) and nonfiction, and write, discuss, and analyze extensively. This course is not intended to replace a course in American Literature.

03780 **Contemporary American Texts**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: None

This course is a one-semester version of 03790 and 03800 without an explicit connection to sociology courses. This course will emphasize the study of contemporary American literature, analytic reading, and composition. The study of other cultural texts will also appear prominently in the course. This class meets the elective English credit.

03790 **Contemporary American Texts 1**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: None

This course is a two semester course sequence, integrated with Sociology 1 and 2 to form an interdisciplinary program that studies American culture and society from World War II to the present. This two semester course will emphasize the study of literature, analytic reading, and composition. The study of other cultural texts will also appear prominently in the course. This course meets the elective English credit and Sociology 1 and 2 graduation requirements.

03800 **Contemporary American Texts 2**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: 03790

This course is a two semester course sequence, integrated with Sociology 1 and 2 to form an interdisciplinary program that studies American culture and society from World War II to the present. This two semester course will emphasize the study of literature, analytic reading, and composition. The study of other cultural texts will also appear prominently in the course. This course meets the elective English credit and Sociology 1 and 2 graduation requirements.

# ENGLISH LANGUAGE ARTS

- 03831/03832     **Preparatory World Literature & Composition**     Rec Grade Lvl: 10     Credit/Sem: 0.5
- Prerequisite: One (1) Year of Language Arts Core Curriculum
- This course introduces students to a modified examination of world literature through the study of its traditions, techniques, and genres. The course emphasizes extensive instruction in the writing process in which students produce numerous essays dealing with literature and other topics. Vocabulary development builds on the program started at the freshman level. This course incorporates a study of humanities as a means of investigating world literature and is designed for the student needing additional support in basic reading and writing skills. This course meets the English requirement for grade 10.
- 03841/03842     **World Literature & Composition**     Rec Grade Lvl: 10     Credit/Sem: 0.5
- Prerequisite: Placement
- This course introduces students to world literature through the study of its traditions, techniques, and genres. The course emphasizes extensive instruction in the writing process in which students produce numerous essays dealing with literature and other topics. Vocabulary development builds on the program started at the freshman level. The course also incorporates a study of humanities as a means of investigating world literature. This course fulfills the English requirement for grade 10.
- 03851/03852     **Honors World Literature & Composition**     Rec Grade Lvl: 10     Credit/Sem: 0.5
- Prerequisite: Division Head Approval, Placement
- This course offers qualified students an accelerated and enhanced examination of world literature through a study of its traditions, techniques, and genres. The course emphasizes extensive instruction in the writing process in which students produce numerous essays dealing with literature and other topics. Vocabulary development builds on the program started at the freshman level. The course also incorporates a study of humanities as a means of investigating world literature. This course fulfills the English requirement for grade 10.
- 03880     **Professional Communications**     Rec Grade Lvl: 11-12 or Consent of Division Head     Credit/Sem: 0.5
- Prerequisite: None
- This interdisciplinary course, which combines business and technology with English, provides students with an opportunity to practice workplace communication skills. The modular program of studies provides real life situations in which students engage in problem-solving scenarios, technical writing, primary research, and multimedia presentations.
- 03910     **Creative Writing**     Rec Grade Lvl: 11-12 or Consent of Division Head     Credit/Sem: 0.5
- Prerequisite: None
- Designed for students who have demonstrated mastery of writing skills, this course provides experience in writing various literary forms which may include poetry, short story, drama, and nonfiction. It includes opportunities to write for publication. Students should be receptive to experimenting with a variety of techniques and subjects. They should also be willing to share their writing.
- 03940     **Advanced Creative Writing & Literary Publication**     Rec Grade Lvl: 12 or Consent of Division Head     Credit/Sem: 0.5
- Prerequisite: 03910 & Completion of Freshman/Sophomore Required English Classes
- Advanced Creative Writing and Literary Publication is designed for students who have taken and excelled in Creative Writing. It has been said that the best way to learn is by doing. This course provides creative writing students with a continued opportunity to explore literature and language by writing. It also gives students a chance to find out first hand how a literary magazine is published.

# ENGLISH LANGUAGE ARTS

03971/03972 **AP English Language & Composition**

Rec Grade Lvl: 11- 12

Credit/Sem: 0.5

Prerequisite: Division Head Approval, Placement

In this course, students will learn to read complex American texts from a variety of historical periods and disciplines. Students will study how accomplished authors use the resources of language to achieve their purposes, and then apply this knowledge to their own writing, considering the interactions between a writer's subject, purpose, and audience expectations. Class activities may include text analysis, formal and informal writing, imitation exercises, journal keeping, collaborative writing, and in-class responses to help students become aware of themselves as writers. Students will be prepared to take the Advanced Placement exam in English Language and Composition offered in early May. For additional information, please visit the student and parent section of the College Board website.

03991/03992 **Honors Written & Oral Communication**

Rec Grade Lvl: 9

Credit/Sem: 0.5

Prerequisite: Division Head Approval, Placement

This course is an accelerated and enhanced approach to effective written and oral communication. Students will focus on style, structure, and language appropriate for various purposes and audiences and will be actively involved in research methodology, writing, and speaking at advanced levels. As part of the course work, the student will review basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and utilize technology to develop multimedia products and presentations.

04051/04052 **AP English Literature & Composition**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: None

This course prepares the upper-level student for the Advanced Placement test in Literature and Composition, a test for which many colleges grant college credit. The course focuses on intense analysis and discussion of selected literary classics. Writing assignments are frequent, emphasizing critical and analytical compositions.

04080 **College Western Literature & Thought 1**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Division Head Approval

This course examines the Western literary and intellectual tradition from the ancients through the 17th century. Literary, philosophical, and other classical texts will be situated in a wide variety of historical contexts and studied from multiple critical perspectives. Readings will include Homer, Plato, Aristotle, Virgil, Augustine, Dante, Chaucer, Erasmus, More, Machiavelli, Rabelais, Shakespeare, Cervantes, Milton, Moliere, and Locke. This highly demanding, advanced level course is recommended only to students with well-developed reading and writing skills. This course meets the language arts graduation requirements for grade 12 and requires dual enrollment in World Literature 206 at Harper College.

04090 **College Western Literature & Thought 2**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Division Head Approval

This course examines the Western literary and intellectual tradition from the 18th century to the present. Literary, philosophical, and other classical texts will be situated in a wide variety of historical contexts and studied from multiple critical perspectives. Readings will include Pope, Swift, Voltaire, Rousseau, Keats, Marx, Flaubert, Mill, Dostoevsky, Ibsen, Nietzsche, Freud, Yeats, Kafka, Stevens, and Ellison. This highly demanding, advanced level course is recommended only to students with well-developed reading and writing skills. This course meets the language arts graduation requirement for grade 12 and requires dual enrollment in World Literature 207 at Harper College.

## ENGLISH LANGUAGE ARTS

04161/04162 **Writing & Oral Communication: Integrated**

Rec Grade Lvl: 9

Credit/Sem: 0.5

Prerequisite: Placement

This course introduces the fundamental skills of effective written and oral communication. Students will focus on style, structure, and language appropriate for various purposes and audiences. Students will be actively involved in research methodology, writing, and speaking. As part of the course work students will review basic grammar and usage, study vocabulary, read selected fiction and nonfiction texts, and utilize technology to develop multimedia products and presentations. This course is taken in an integrated format with the social science course Human Geography.

04171/04172 **World Literature & Composition: Integrated**

Rec Grade Lvl: 10

Credit/Sem: 0.5

Prerequisite: Placement

World Literature and Composition introduces students to world literature through the study of its traditions, techniques, and genres. The course emphasizes writing and offers extensive instruction in the writing process and vocabulary development. Students produce numerous essays about literature and other topics. This course fulfills the English requirement for grade 10. This course is taken in an integrated format with the social science course World History.

04181/04182 **American Literature & Composition: Integrated**

Rec Grade Lvl: 11

Credit/Sem: 0.5

Prerequisite: Placement

This course offers students the opportunity to explore and analyze the traditions, techniques, and genres of American literature. The course emphasizes writing and offers extensive instruction in the writing process. In addition, this class highlights usage and mechanics, analytic reading techniques, rhetorical analysis, and vocabulary development. This course fulfills the English requirement for grade 11. This course is taken in an integrated format with the social science course U. S. History.

09180 **Multimedia Communications**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: None

This second semester course is required in the Multimedia Program. Areas of study will be applied in multimedia productions: broadcast and e-journalism; news, feature, opinion, and sports writing; writing and editing for a variety of audiences and media formats; research through a variety of methods; and basic communications skills. A semester's credit is issued for the second semester. This course satisfies one semester the English graduation requirement.

## FAMILY AND CONSUMER SCIENCES

05711/05712 **Culinary Arts/ProStart 1-2**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 05790 Foods 2: Advanced Food Preparation

This course helps students attain the knowledge and develop skills for the foodservice industry, our country's fastest-growing industry. Students will sharpen culinary skills while gaining experience in the industry. This course will follow the ProStart curriculum certified by the National Restaurant Association (NRA) and Illinois Restaurant Association (IRA) and over the first year of a two-year program. A related, School-Business partnership will enhance the students' understanding of the commercial food skill standards, with a chance to shadow in a related job. This is part of the District 214 Dual Credit Program and will grant college credit toward an associate of bachelor's degree.

05780 **Foods 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

This is an introductory course in food preparation and nutrition that includes classroom and laboratory experiences. Class work emphasizes time management and safety as students gain basic knowledge and skills in food preparation. Units of instruction include breakfast foods, lunches, convenience cooking, and desserts.

05790 **Foods 2: Advanced Food Preparation**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 05780 or Consent of Instructor

This class is a continuation of the principles and techniques taught in Foods 1 using and expanding the students' knowledge as they study advanced techniques and applications. Students are introduced to a wide variety of culinary styles as well as career opportunities related to the profession. Units of study include working with meats, poultry, and pasta.

05820 **Practicum in Early Childhood Education 3**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 05910 and 05950

This is an advanced course for students that have successfully completed levels of Practicum in Early Childhood Education 1 and 2. This course provides students with actual onsite work experience with children. Emphasis will be placed on the creation of a career portfolio based on the students' goals and interests in the area of early childhood education. Students pursuing careers in k-12 education, Psychology, Social Work, and areas of the medical field such as therapists, pediatricians, and nursing, will benefit from this class.

05830 **Practicum in Early Childhood Education 4**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 05920, 05950, and 05820

In this lab oriented class students will develop activities that incorporate Illinois State Board of Education (ISBE) Early Childhood Standards. Students will create, implement, and assess a comprehensive portfolio. Students will become familiar with emerging curriculum, scheduling, materials and equipment. Teacher's roles and leadership skills are emphasized. This course would be beneficial to students with an interest in pursuing a career related to education.

05841/05842 **Husky Inn**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

This exploratory course prepares students in the basic concepts of foods, clothing, and home and family living. Study emphasizes the development of basic and interpersonal skills needed to function as a productive individual. Students learn through lab settings and will require individual and group participation.

## FAMILY AND CONSUMER SCIENCES

05850	<b>Fashion Construction 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This course provides an understanding of the many facets of clothing and textiles. Students will practice the fundamentals of basic sewing skills, patterns, and construction techniques. Students will apply their knowledge and skills in problem solving as they relate to the construction of garments.			
05860	<b>Fashion Construction 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 05850			
This course continues the development of clothing construction techniques, knowledge, and experiences. Students will study alterations, designer patterns, special fabrics, and advanced construction techniques.			
05870	<b>Fashion Construction 3</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 05860			
This course focuses on advanced clothing construction techniques, fashion design, textile art, and original work. Students will construct apparel, accessories, and/or home items.			
05880	<b>Fashion Construction 4</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 05870			
Students will construct clothing, household items or accessories utilizing a variety of fabrics, materials, and technologically based equipment. They will expand their competence in specialties such as textile arts, visual display, and entrepreneurship. Students will present their work using a multimedia-based portfolio and/or gallery exhibit.			
05910	<b>Human Growth &amp; Child Development</b>	Rec Grade Lvl: 10-12 or Consent of Instructor	Credit/Sem: 0.5
Prerequisite: None			
Students explore topics focusing on child growth and care from conception through childhood with emphasis on the techniques and skills necessary to promote healthy physical, social, emotional, and intellectual development. This course incorporates concepts from child psychology, educational research, biology, sociology, and philosophy.			
05920	<b>Practicum in Early Childhood Education 1</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 05910			
This laboratory course concentrates on the practical application of knowledge gained during Human Growth and Child Development. The student will plan activities, teach, supervise, and observe children in a preschool setting.			
05940	<b>Sociology of Marriage &amp; Family</b>	Rec Grade Lvl: 11-12 or 10 with Consent of Instructor	Credit/Sem: 0.5
Prerequisite: None			
This course applies psychological theory to the study of human behaviors in various sociological contexts including traditional family life, single parent family environments, and cross-cultural comparisons. Units of study include personality development, human sexuality, mate selection, parenting, death and dying, and consumer economics. This course satisfies the state consumer education requirement and one-half elective social science credit.			



# HEALTH AND PHYSICAL EDUCATION

08440                    **Beginning Strength & Conditioning**                    Rec Grade Lvl: 9-10                    Credit/Sem: 0.25

Prerequisite: Division Head Approval

This course is recommended as a prerequisite for Advanced Strength and Conditioning for freshman and sophomores. Sophomores may take Advanced Strength and Conditioning without taking this course only with the approval of the division head. Instruction includes the freshman outcomes plus strength and conditioning techniques and practices. Students must participate at high intensity levels of strength and cardiovascular activities. This semester course can only be taken once.

08500                    **Modified Physical Education**                    Rec Grade Lvl: 9-12                    Credit/Sem: 0.25

Prerequisite: Placement

This course offers physical education activities for individuals who, by physician prescription, are unable to participate in the regular physical education curriculum. This class emphasizes development and implementation of prescribed exercise programs as directed by the physician. The Modified Physical Education program will also focus on health-related physical fitness concepts and appropriate skill-related fitness activities as approved by the physician. This course may be substituted for any course at any time provided the student meets all other enrollment criteria.

08510                    **Freshman Physical Education 1**                    Rec Grade Lvl: 9                    Credit/Sem: 0.25

Prerequisite: Placement

This course introduces concepts for personal development in health-related fitness and physical skills; these include cardiovascular exercise, body composition, strength, endurance, and flexibility, which will be the basis for the four-year physical education program. Students will develop physical and health-related fitness skills through participation in individual and field activities.

08520                    **Freshman Physical Education 2**                    Rec Grade Lvl: 9                    Credit/Sem: 0.25

Prerequisite: Placement

This course introduces concepts for personal development in health-related fitness and physical skills; these include cardiovascular exercise, body composition, strength, endurance, and flexibility, which will be the basis for the four-year physical education program. Students will develop physical and health-related fitness skills through participation in individual and team sports.

08530                    **Physical Education**                    Rec Grade Lvl: 10-12                    Credit/Sem: 0.25

Prerequisite: Placement

This course focuses on personal health with emphasis on health-related fitness; students will work on exercise, cardiovascular, body composition, strength, endurance, and flexibility. Students engage in fitness activities based on their fitness level. A variety of fitness, skills, individual, and field activities will promote the development of lifetime fitness leisure skills.

08540                    **Physical Education**                    Rec Grade Lvl: 10-12                    Credit/Sem: 0.25

Prerequisite: Placement

This course focuses on personal health with emphasis on health-related fitness; students will work on exercise, cardiovascular, body composition, strength, endurance, and flexibility. Students engage in fitness activities based on their fitness level. A variety of fitness, skills, individual, and field activities will promote the development of lifetime fitness leisure skills.















# MATHEMATICS

04881/04882    **AP Statistics**    Rec Grade Lvl: 11-12    Credit/Sem: 0.5

Prerequisite: 04750 With a Grade of B or Better, or Division Head Approval

This course will focus on four themes: exploratory analysis, planning of a study, probability, and statistical inference. Students will prepare to take the Advanced Placement Statistics exam. This is a college level course. If students have not completed 04760 and 04770, concurrent enrollment is recommended.

04900    **Accelerated Honors Advanced Algebra 90**    Rec Grade Lvl: 9-10    Credit/Sem: 0.5

Prerequisite: Placement

Instruction in this course and Accelerated Honors Advanced Algebra 91 includes a study of sequences and series, permutations, combinations and probability, systems of equations and inequalities, determinants and factoring, and an in-depth study of functions. This course emphasizes problem solving and critical thinking at the highest mathematical level. This is a college preparatory course.

04910    **Accelerated Honors Advanced Algebra 91**    Rec Grade Lvl: 9-10    Credit/Sem: 0.5

Prerequisite: 04900

This course completes the study of Accelerated Honors Advanced Algebra 90. This is a college preparatory course.

04920    **Accelerated Honors Geometry 92**    Rec Grade Lvl: 9-10    Credit/Sem: 0.5

Prerequisite: 04910 With a Grade of C or Better

This course along with Honors Geometry 93 provides instruction in the study of the properties of two and three dimensional figures of Euclidean geometry with a major emphasis on deductive proofs. This is a college preparatory course.

04930    **Accelerated Honors Geometry 93**    Rec Grade Lvl: 9-10    Credit/Sem: 0.5

Prerequisite: 04920

This course completes the instruction of geometry and introduces pre-calculus concepts. This is a college preparatory course.

04940    **Accelerated Honors Pre-Calculus 94**    Rec Grade Lvl: 11    Credit/Sem: 0.5

Prerequisite: 04930 With a Grade of C or Better

Honors Pre-Calculus 94 and 95 include the study of trigonometric, inverse, linear, quadratic polynomial, and rational function and their graphs. Additional topics of study are complex numbers, conic sections and limits, and an introduction to differential calculus. This is a college preparatory course.

04950    **Accelerated Honors Pre-Calculus 95**    Rec Grade Lvl: 11    Credit/Sem: 0.5

Prerequisite: 04940 With a Grade of C or Better, or Division Head Approval

This course completes the study of topics in Honors Pre-Calculus 94. This is a college preparatory course.

04961/04962    **AP Calculus BC**    Rec Grade Lvl: 12    Credit/Sem: 0.5

Prerequisite: 04950 With a Grade of B or Better

Combined with Calculus 97, Calculus 96 explores the fundamentals of differential and integral calculus, infinite series, and differential equations in preparation for the Calculus BC Advanced Placement examination. This is a college level course.

# MATHEMATICS

04981/04982 **College Calculus 3 & Differential Equations**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: 04970 and Division Head Approval

This course continues the study of calculus beyond BC Calculus. Students will study vector functions, multivariable functions, differential multiple integration, and vector calculus with applications to science and engineering. The second semester will be a study of differential equations.

## MISCELLANEOUS

02260      **Preparatory Resource Room**      Rec Grade Lvl: 9-12      Credit/Sem: 0.5

Prerequisite: None

This course is designed for students who need additional support with academic class work. Class time develops study skills, learning strategies, and technological support.

06580      **Service Learning-70 Hours**      Rec Grade Lvl: 9-12      Credit/Sem: 0.5

Prerequisite: None

This program provides a structured experience in volunteerism, laying the groundwork for involved citizenship. Students will participate in a variety of community service experiences under the supervision and/or monitoring of District 214 coordinators. Students may choose from an extensive array of existing programs and activities, or may individually customize experiences with the assistance and approval of the coordinator. Students will have to log a minimum of 70 hours of service learning within a two-year time frame to receive credit for this course.

## MUSIC

01501/01502 **Beginning Choir**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

For students interested in gaining appreciation for music, this introductory course in choral music emphasizes the fundamentals of vocal production, sight reading, diction, and musical interpretation. Students learn these elements through various study and performance practices. Students will also study how music relates with the other arts. Classes may be divided into soprano/alto and tenor/bass sections. This course satisfies the district's fine arts graduation requirement.

01541/01542 **Treble Choir**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Placement

Treble Choir is for sophomore, junior, and senior students with voices in the soprano/alto range. Studies of treble vocal literature, both historic and contemporary, are featured with emphasis placed on sight reading, ear training, vocal production, and musical expression. Students will also study how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

01581/01582 **Intermediate Mixed Choir**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

Intermediate Mixed Choir is for students with voices in the soprano/alto/tenor/bass range. Studies of vocal literature, both historic and contemporary are featured with emphasis placed on sight reading, ear training, vocal production, and musical expression. Students will also study how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

01591/01592 **Advanced Mixed Choir**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

Composed primarily of juniors and seniors, this selective mixed group of voices represents students capable of performing more advanced choral literature. Through various study and performance practices, students attain a high degree of proficiency in sight reading, ear training, and vocal development. Students will also study how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

01631/01632 **Vocal Ensemble 1**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Consent of Instructor, Placement

Singers in Vocal Ensemble 1 are selected for their vocal and performance capabilities through the audition process. In most cases, membership in the Advanced Mixed Choir is required. Activities are performance oriented and often require theatrical movement. Students in this class study a wide variety of literature ranging from classical to popular/jazz styling, depending on the group's area of specialization. This course satisfies the district's fine arts graduation requirement.

01641/01642 **Vocal Ensemble 2**

Rec Grade Lvl: 10-12; 9-12 @ RM

Credit/Sem: 0.5

Prerequisite: Consent of Instructor, Placement

Singers in Vocal Ensemble 2 are selected for their vocal and performance capabilities through the audition process. In most cases, membership in the Advanced Mixed Choir is required. Activities are performance oriented and often require theatrical movement. Vocal Ensemble 2 students explore a wide variety of literature ranging from classical to popular/jazz styling, depending on the group's area of specialization. This course satisfies the district's fine arts graduation requirement.

# MUSIC

01681/01682 **AP Music Theory**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: Consent of Instructor

Advanced Placement Music Theory is a course designed for students interested in pursuing a career in a music-related field or those students interested in continuing their musical studies after high school. This class will focus on aural training, sight-reading, and advanced music analysis. In addition to reviewing the basics of music, students will explore advanced musical forms, historical periods, composers and compositional techniques. Students will really understand the "how" and "why" of music while at the same time preparing to take the AP examination in May.

01751/01752 **Cadet Band**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Placement

Students with little or no previous musical training and who lack the skills needed for entry into Concert Band are encouraged to take this course as it offers a study of basic music fundamentals and techniques in both individual and group situations. When large enrollments warrant more than one group, units may be designated as Cadet Band, Cadet Band A (woodwind players only), and Cadet Band B (brass and percussion players). Students will study how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

01771/01772 **Concert Band**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Audition, Placement

An intermediate level band open to all qualified students, this performing group requires a basic musical background and fluency on one's instrument. Members join with the Symphonic Band to perform as a marching band during this season. Concert sessions entail a study of instrumentation fundamentals and techniques at individual, ensemble, and full band levels. Participation in other performing groups is encouraged, including advancement to Symphonic Band. Concert Band maintains an active performance schedule. Students will study how music interrelates with the other arts. Concert Band students must participate in Marching Band. This course satisfies the district's fine arts graduation requirement.

01781/01782 **Symphonic Band**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Audition, Placement

Open to all qualified students, the Symphonic Band studies and performs symphonic music literature that is both complex and challenging. During marching season, it combines with the Concert Band to form the Marching Band. In addition to a regular concert schedule, members may perform in a solo and/or ensemble situation. Participation in other musical organizations (orchestra, jazz, and pep bands) is encouraged. Students will study how music interrelates with the other arts. Symphonic Band students must participate in Marching Band. This course satisfies the district's fine arts graduation requirement.

01791/01792 **Concert Orchestra**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Audition, Placement

Concert Orchestra is a class for students who perform at the intermediate to advanced level. This class meets daily for one period and performs four to six times each year both in school and the community. Students receive one credit for each year they are in the class. This course meets the District 214 fine arts requirement.

01801/01801 **Jazz Band**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Audition, 01771/01772 or 01781/01782, or Division Head Approval

Jazz Band students explore standard jazz repertoire as well as more advanced and contemporary compositions including those exploring unusual meters and metric change and non-conventional formal structures. Improvisation is expected of all students. Performance on various occasions is anticipated and encouraged. Students will study how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

# MUSIC

01811/01812    **Instrumental Ensemble**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: Audition

Open to all instrumentalists regardless of their instrument, this course emphasizes the development and improvement of jazz techniques and improvisation. Outside classroom activities include several concerts throughout the school year. This course satisfies the district's fine arts graduation requirement.

01831/01832    **Orchestra**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: Audition, Placement

For students wishing to become members of a major performing group. String sections meet daily. Orchestra members must be proficient on a string instrument as well as in basic music fundamentals. Orchestra achieves full symphonic instrumentation through the addition of selected woodwind, brass, and percussion players. Major concert performances are scheduled throughout the year at both the building and district levels. Students will also study how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

01841/01842    **Guitar 1**    Rec Grade Lvl: 9-12; 10-12 RM, W    Credit/Sem: 0.5

Prerequisite: Placement

Students interested in learning to play the classical guitar will receive instruction in music notation and simple rhythmic patterns as well as right and left hand finger and rhythmic patterns. Students will study basic to moderately difficult music and how music interrelates with the other arts. This course satisfies the district's fine arts graduation requirement.

01871/0872    **Harmony & Arranging 1**    Rec Grade Lvl: 10-12    Credit/Sem: 0.5

Prerequisite: Consent of Instructor, Placement

This course is an intensive study of the music fundamentals: melody, harmony, rhythm, instrumentation, conducting, sight singing, and analysis as they apply to music literature of all historical periods. Students' projects in composition and arranging are designed for those students with a previous musical background. This course satisfies the district's fine arts graduation requirement.

01881/01882    **Harmony & Arranging 2**    Rec Grade Lvl: 11-12    Credit/Sem: 0.5

Prerequisite: 01871/01872

Harmony and Arranging 2 is a continuation of the first year's study leading to advanced musical analysis, arranging, and original composition. Harmony and Arranging 2 is a college preparatory course for students intending to be music majors.

01891/01892    **Orchestral Winds & Percussion**    Rec Grade Lvl: 9-12    Credit/Sem: 0.25

Prerequisite: Audition

Winds and percussion students who participate in a District 214 school band program will be in this course which will meet when the full orchestra practices.

01901/01902    **String Ensemble**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: Audition

This course emphasizes the standard 18th and 19th century string ensemble literature as well as the works of contemporary composers. Public performance may be an integral part of the course.

# NAVAL SCIENCE

08451/08452 **Naval Science 1**

Rec Grade Lvl: 9-11

Credit/Sem: 0.5

Prerequisite: None

This course introduces the beginning cadet to the Navy and the NJROTC program. Students will gain an appreciation for the heritage and traditions of America, with recognition of the historically significant role of sea power. By learning the basics of leadership and citizenship, cadets earn a growing sense of pride in their organization, peers, and self.

08461/08462 **Naval Science 2**

Rec Grade Lvl: 10-11

Credit/Sem: 0.5

Prerequisite: 08451/08452

This course helps students establish commendable citizenship standards, high leadership goals, good study habits, and a sense of responsibility; develop appreciation for authority in a democratic society; learn about the organization of and professions in the Navy; and gain a deeper awareness of the vital importance of the world's oceans to the continued economic, political, military, and environmental well-being of the United States.

08471/08472 **Naval Science 3**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 08461/08462

This course helps students understand the role of the U.S. as a world power in the international political arena through the study of military law, international law, national strategy, sea power, naval operations, intelligence, and counterintelligence.

08481/08482 **Naval Science 4**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: 08471/08472

This course helps senior cadets develop their leadership skills through practical application of concepts and techniques acquired in previous courses and through reading and discussions of advanced leadership topics and themes. Seniors are usually in positions of responsibility and authority within the unit, leading and assisting others.

# SCIENCE

05011/05012    **Preparatory Biology**    Rec Grade Lvl: 9-10    Credit/Sem: 0.5

Prerequisite: Placement

Students will investigate basic biology concepts in this course through laboratory and classroom activities which have particular relevance to the living world. Course work will introduce concepts and ideas concerning the human body, its functioning, and its relationship to a healthy environment. The basic notion of life, including cellular and chemical processes necessary for life, is investigated in the laboratory and explained in the text and lectures. Further study focuses on man, life systems, and the interaction of man with his environment.

05021/05022    **Biology**    Rec Grade Lvl: 9-10    Credit/Sem: 0.5

Prerequisite: Placement

This course presents concepts and ideas concerning the commonality and diversity of all living organisms. The basic notion of life, including cellular and chemical processes necessary for life, is investigated in the laboratory and explained in the text and lectures. Further study focuses on man, life systems, and the interaction of man with his environment.

05031/05032    **Honors Biology**    Rec Grade Lvl: 9    Credit/Sem: 0.5

Prerequisite: Placement

Honors Biology is similar to the topics in Biology 05021/05022 at a more challenging pace and depth.

05051/05052    **Preparatory Chemistry**    Rec Grade Lvl: 10    Credit/Sem: 0.5

Prerequisite: 05011/05012, 05021/05022 or Division Head Approval

The content of this course includes a basic introduction to the mathematically oriented study of atomic and molecular structure along with the forces that govern chemical changes. Topics include energy, conservation laws, organization and structure of matter, equilibrium, reaction rate, and electrical and magnetic forces. This course is designed for students needing additional support.

05111/05112    **Chemistry**    Rec Grade Lvl: 10-12    Credit/Sem: 0.5

Prerequisite: 04710 or 04630, Placement

The content of this course includes a mathematically oriented study of atomic and molecular structure along with the forces which govern chemical change. Topics include energy, conservation laws, organization and structure of matter, equilibrium, reaction rate, and electrical and magnetic forces. Sophomores may take this course with division head approval.

05121/05122    **Honors Chemistry**    Rec Grade Lvl: 10-12    Credit/Sem: 0.5

Prerequisite: 04710 and Division Head Approval

The content of this course is similar to that of the Chemistry course 511, however, students explore topics in greater depth. Selected advanced topics in chemistry are added to challenge the science-oriented student with a strong math background.

05151/05152    **Preparatory Physics**    Rec Grade Lvl: 11    Credit/Sem: 0.5

Prerequisite: 05011/05012, 05021/05022, 05051/05052, 05111/05112 or Division Head Approval

This course will teach students problem solving methods, graphing methods, experimental procedures, physics, and astronomy concepts. Topics include mechanics and dynamics, space science and astronomy, sound and light, electricity and magnetism. This course is designed for students needing additional support.

## SCIENCE

05161/05162     **Physics**     Rec Grade Lvl: 11-12     Credit/Sem: 0.5

Prerequisite: 04730, 04740 or Concurrent Enrollment

This course is a laboratory experience with mathematical emphasis. Topics include the study of conservation laws, space and time measurement, optics and waves, electricity, magnetism, energy, forces, and motion.

05171/05172     **Honors Physics**     Rec Grade Lvl: 11     Credit/Sem: 0.5

Prerequisite: 04730, 04740 or Concurrent Enrollment, and Division Head Approval

This course provides a detailed and comprehensive study of space and time measurement, optics and waves, electricity, magnetism, energy, and atomic structure. Course work demands a high level of mathematical rigor.

05231/05232     **Physics 1**     Rec Grade Lvl: 10-12     Credit/Sem: 0.5

Prerequisite: 04630 or 04710

Designed for students planning technical careers and interested in applied science this course gives students an understanding of the physical principles on which modern technology is based and the application of those principles to new tasks as the need arises. This course provides a unified approach to studying the basic energy systems: mechanical, fluid, electrical, and thermal. Through it students will understand how concepts such as force, work, rate, and resistance apply and operate in each of the four energy systems.

05250     **Environmental Science**     Rec Grade Lvl: 11-12     Credit/Sem: 0.5

Prerequisite: 05021/05022 and 05071/05072 or Division Head Approval

This course explores the basic ecological principles applied in the study of mankind and his impact on the environment. Students investigate the causes and effects of pollution, animal endangerment, natural resources, and energy.

05270     **Oceanography**     Rec Grade Lvl: 11-12     Credit/Sem: 0.5

Prerequisite: 05021/05022 and 05071/05072 or Division Head Approval

This course provides an introduction to oceanography to give the student a basic understanding of the geological, physical, chemical, and biological properties of the sea and sea life. Content will include shoreline development, ocean basin, topography, waves, current, properties of salt water, and marine organisms.

05280     **Human Physiology**     Rec Grade Lvl: 11-12     Credit/Sem: 0.5

Prerequisite: 05021/05022 and 05111/05112 With a Grade of C or Better

This course provides an in-depth study of the structure and function of human systems.

05320     **Advanced Earth Science**     Rec Grade Lvl: 11-12     Credit/Sem: 0.5

Prerequisite: One Biology and One Physical Science Credit

Students in this course advance their study of geology, meteorology, physical oceanography, and the process of earth changes.

## SCIENCE

05330      **Advanced Space Science**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: One Biology and One Physical Science Credit

This course will involve a detailed and comprehensive study of the cosmos, cosmologies, star evaluations, galaxies and the possibility of existence of extraterrestrial life. This course will extend the background and knowledge students have developed in earlier science coursework in the area of space science.

05341/05342      **Advanced Biology**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: 05111/05112 or Division Head Approval

This course provides an advanced treatment of major concepts from the following six fields of study in life science: molecular/cellular biology, genetics, microbiology, zoology, botany, and ecology. Each of these topics is the focus of inquiry and laboratory investigation with an emphasis on the practical and relevant applications of curriculum concepts. This course offers an alternative to seniors interested in having advanced experiences with a variety of life science topics.

05411/05412      **AP Biology**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: 05021/05022, 05111/05112, Concurrent Enrollment in 05421/05422, and Division Head Approval

This course provides a detailed presentation of the fundamental principles of life through a content experience. The general topics, which will place emphasis on both plants and animals, include the chemical basis of life; the cell; genetics and reproduction; evolution; the structure, function, and classification of organisms; and ecology. One aim of the course is to prepare students for satisfactory performance on the Advanced Placement examination given in May. Students enrolled in this class will be strongly encouraged to take the Advanced Placement examination. This course must be taken concurrently with Advanced Placement Biology (Lab).

05421/05422      **AP Biology (Lab)**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: Concurrent Enrollment in 05411/05412

This course provides a detailed presentation of the fundamental principles of life through a laboratory experience. This course must be taken concurrently with Advanced Placement Biology (Lecture).

05431/05432      **AP Environmental Science**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: 05021/05022 and 05111/05112

The content of this course is approximately equal to a one-semester, introductory-level college course in environmental science. The topics covered are interrelationships in the natural world, identifying and analyzing environmental problems both natural and human-made, evaluating the relative risks associated with these problems, and examining alternative solutions for resolving or preventing them. The aim of this course is to prepare students for satisfactory performance on the Advanced Placement examination given in May. Students enrolled in this class will be strongly encouraged to take the Advanced Placement examination.

05441/05442      **AP Physics C**      Rec Grade Lvl: 12      Credit/Sem: 0.5

Prerequisite: 05171/05172 and Concurrent Enrollment in 04860 & Division Head Approval

This course is intended for students who have completed one year of Physics and one year of Chemistry. Students should expect to apply rigorous mathematics in the development of theories, analysis of laboratory data, and solution of problems. The primary focus of this course will be problem solving and mathematical model construction to explain mechanics (statistics, kinematics, and dynamics).

## SCIENCE

05451/05452 **AP Chemistry**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 05111/05112 or 05121/05122, 04750 & Completion of or Enrollment in 05161/05162 or 05171/05172;

Concurrent Enrollment in 05461/05462 or Division Head Approval

The content of this course is approximately equivalent to a first year college chemistry course. Students will examine structure, bonding states of matter, reactions (type, stoichiometry, kinetics, and equilibrium), thermodynamics, and descriptive examination. Students are strongly encouraged to take the Advanced Placement examination in May. This course must be taken concurrently with Advanced Placement Chemistry (Lab).

05461/05462 **AP Chemistry (Lab)**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: Concurrent Enrollment in 05451/05452

The laboratory experiences provided by this course support the lecture presentation of the topics covered in Advanced Placement Chemistry (Lecture). Students will demonstrate their understanding of chemistry topics through a variety of laboratory activities. This course must be taken concurrently with Advanced Placement Chemistry (Lecture).

05501/05502 **AP Physics C (Lab)**

Rec Grade Lvl: 12

Credit/Sem: 0.5

Prerequisite: 05171/05172 and Concurrent Enrollment in 04860

The laboratory experiences provided in this course support the lecture presentation of the topics covered in Advanced Placement Physics C (Lecture). Students will demonstrate their understanding of the principles of physics topics through a variety of laboratory experiences. This course must be taken concurrently with Advanced Physics C (Lecture). This course may not be offered at all schools.

## SOCIAL SCIENCE

07581/07582 **World History**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Placement

This course is a survey of the development of civilization from prehistoric times to the present day. Topics will include how man has governed himself; his religious expressions and aspirations; developments in science and technology; problems of war and peace; and creative expressions in architecture, art, and literature.

07641/07642 **U.S. History**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: Placement

This course is a required two-semester course investigating the history of America from the age of discovery to the present. Teachers may present material in either chronological or topical units. Students take the federal and state constitutions, Declaration of Independence, and flag code test required for graduation during this course.

07651/07652 **AP World History**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Consent of Instructor, Placement

This course develops a greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. Using their knowledge and skills, students will explore comparisons among major societies. This course will prepare students to take the Advanced Placement exam.

07661/07662 **AP U.S. History**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: Consent of Instructor, Placement

This accelerated U.S. History course for academically capable juniors and seniors incorporates college level materials, assignments, and means of evaluation in order to enrich, stimulate, and challenge the superior student. Placement is highly selective and is based on past grades, test scores, counselor recommendation, and interest in history. This course will prepare students to take the Advanced Placement exam.

07671/07672 **AP European History**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: Consent of Instructor, Placement

This course provides an accelerated study of European history. Students acquire understandings equivalent to those gained in a college level introductory course. Coursework offers general narrative of European history from 1450. The course also includes an examination of the political, diplomatic, intellectual, cultural, social, and economic history of Europe. The course will prepare students to take the College Board Advanced Placement Exam.

07710 **Sociology 1**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: None

This course provides a behavioral study of oneself in relationship to human group behavior. Specific units will include sociological methodology, cultures, institutions, values, marriage, family, sexuality, and social issues. This course will introduce consumer education topics that will be completed in Sociology 2 (07720). Students must complete both semester courses (07710 and 07720) to satisfy the state consumer education requirement.



## SOCIAL SCIENCE

07860      **American Problems**      Rec Grade Lvl: 10-12      Credit/Sem: 0.5

Prerequisite: None

This course will focus on America's social and economic problems that investigate such topics as law and the legal system, criminal law, juvenile justice, individual rights, influence on consumers, prejudice and discrimination, and American attitudes. The primary objective of this course is to give students an insight into the causes and consequences of problems which they face in the United States today. This course satisfies the consumer education requirement.

07871/07872      **AP U.S. Government & Politics**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: None

This course provides an accelerated study of American government for academically capable juniors and seniors. Students work to understand the nature of governmental decisions and political power in the United States by discussing such topics as the constitutional foundations of American government, political parties and interest groups, civil rights, and civil liberties. This course will prepare students to take the College Board Advanced Placement Exam.

07931/07932      **AP Economics-Micro & Macro**      Rec Grade Lvl: 11-12      Credit/Sem: 0.5

Prerequisite: Consent of Instructor

This course provides an accelerated study in the field of economics. Students acquire understandings equivalent to those gained in a college level introductory course. Course study emphasizes broad economic theory and principles such as supply and demand, the profit maximizing production level for firms, decisions regarding the use of labor and other resources, and the role of government in economics. This course will prepare students to take the College Board Advanced Placement Exam and also fulfills the consumer education requirement for graduation.

07940      **Social Studies Practicum**      Rec Grade Lvl: 10-12      Credit/Sem: 0.5

Prerequisite: None

This course combines classroom studies with community resources and gives students the opportunity to explore options available in community internships.

09301/09302      **Preparatory Human Geography**      Rec Grade Lvl: 9      Credit/Sem: 0.5

Prerequisite: Placement

This course is designed for students who need study of and practice in basic writing and reading within the content of social science. Students will understand the world's physical features, how they blend with social systems and how they affect economies, politics, and human interaction. By understanding how political and economic systems influence international events, students will develop the skills and knowledge they will need to be contributing citizens. Students will be able to make informed choices, prudently use resources, and function as effective participants in the economies around them. The curriculum will be differentiated to accommodate the skill level of the student.

09311/09312      **Human Geography**      Rec Grade Lvl: 9      Credit/Sem: 0.5

Prerequisite: Placement

This course focuses on the world's physical features, how they blend with social systems, and how they affect economies, politics, and human interaction. By understanding how political and economic systems influence international events, students will develop the skills and knowledge they will need to be contributing citizens: they will be able to make informed choices, prudently use resources, and function as effective participants in the economies around them.

## SOCIAL SCIENCE

09330                    **Sociology of Service Learning-Fall**                    Rec Grade Lvl: 10-12                    Credit/Sem: 0.5

Prerequisite: None

This course applies sociological theory to the study of human behaviors in various community contexts including traditional and special education settings as well as in a variety of local social service agencies. Students will study socialization and its effect on exceptional children, the family, the community, and themselves. Students will identify needs in the community, develop programs, and participate in existing programs that meet the needs of the school and the community. This course does not meet the consumer education requirement. A student may take either the fall or spring semester, or both, but can only complete each semester once. The spring course may be taken before the fall course.

09340                    **Sociology of Service Learning-Spring**                    Rec Grade Lvl: 10-12                    Credit/Sem: 0.5

Prerequisite: None

This course focuses student learning around societal groups that lack equal access to wealth, power, and prestige in our community. Students will combine academic knowledge and experiential "hands on" learning with a focus on the elderly, minority groups, and the homeless. Students will learn strategies to make a positive impact on the lives of these groups and more. This course does not meet the consumer education requirement. A student may take either the fall or spring semester, or both, but can only complete each semester once. The spring course may be taken before the fall course.

09351/09352        **AP Human Geography**                    Rec Grade Lvl: 9                    Credit/Sem: 0.5

Prerequisite: Placement

This course provides an accelerated study of Human Geography, Politics, and Economics equivalent to those gained in a college level introductory course. Emphasis will be on ways that early civilizations throughout the world developed systems in beliefs about the nature of the world and how these and other beliefs resulted in laws, religions, languages, economics, communication, and technology that have shaped the modern world. Students will understand how political and economic systems influence international events. This course will prepare students to take the College Board Advanced Placement exam.

09371/09372        **Preparatory World History**                    Rec Grade Lvl: 10-12                    Credit/Sem: 0.5

Prerequisite: Placement

This course is designed for students who need study of and practice in basic writing and reading within the content of world history. This course is a survey of the development of civilization from prehistoric times to the present day. Topics will include how man has governed himself, his religious expressions and aspirations, developments in science and technology, problems of war and peace, and creative expressions in architecture, art, and literature. The curriculum will be differentiated to meet the skill level of the student. This course meets the world history graduation requirement.

09381/09382        **Preparatory U.S. History**                    Rec Grade Lvl: 11-12                    Credit/Sem: 0.5

Prerequisite: Placement

This course is designed for students who need study of and practice in basic writing and reading within the content of American History. This course will provide study in the history of America from the age of discovery to the present. Students take the federal and state constitutions, Declaration of Independence, and flag code test required for graduation. The curriculum will be differentiated to meet the skill level of the student. This course meets the U. S. History graduation requirement.

## SUMMER

09851/09852 **Summer Internship Program**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: Consent of Coordinator

The Summer Internship Program places students at various career sites. Students chose their internship from over 20 career areas. This summer school course spans the six weeks of the summer school (both semesters). Students receive one credit at the end of the six weeks. All district internships are unpaid and students are responsible for their own transportation.



# TECHNOLOGY EDUCATION

06260	<b>Graphic Arts Technology 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 06250			
<p>This course is designed for students who want to further their investigation into a career in graphic arts. The students will concentrate on lithography and screen printing in addition to desktop publishing, layout and design, camera work, stripping and platemaking, safety, press work, bindery and screen printing. Students will have ample time to develop and explore job skills. This course is offered at BGHS, EGHS, and JHHS.</p>			
06270	<b>Graphic Arts Technology 3</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 06260			
<p>This course is designed for students who would like to further their investigation into a career in graphic arts. The students will concentrate on lithography and screen printing in addition to desktop publishing, layout and design, camera work, stripping and platemaking, safety, press work, bindery, and screen printing. Students will have ample time to develop and explore job skills. This course is offered at BGHS, EGHS, and JHHS.</p>			
06280	<b>Graphic Arts Technology 4</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: 06270			
<p>This course gives students insight into the graphic arts industry. Students enrolled in this course will develop basic job entry skills in lithography and screen-printing, and will be able to make a decision about pursuing a career in graphic arts. This course is offered at BGHS, EGHS, and JHHS.</p>			
06290	<b>Woodworking 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
<p>This is a course intended for students who enjoy designing and constructing useful wood products. Instruction stresses the development of knowledge and skills needed for product design and production, recognizing appropriate safety and workmanship standards, and the application of knowledge regarding woodworking tools, materials, and processes. This class emphasizes teamwork, career awareness, decision-making, and time management skills.</p>			
06301/06302	<b>Advanced Graphic Arts</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.5
Prerequisite: 06280 or Consent of Instructor			
<p>This course prepares students for post-secondary experiences in the graphic arts industry. This capstone course can lead directly to a number of post-secondary institutions that award certificated, associate and baccalaureate degrees, and establishes skills that transition directly into the workspace. This class's production-oriented atmosphere challenges students to build on previous course work and become self-directed learners who create professional, high profile printing projects. This course is offered at BGHS, EGHS, and JHHS.</p>			
06310	<b>Woodworking 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 06290			
<p>This hands-on course continues to cover the concepts of woodworking. Techniques learned in the previous class are put to extensive use as more advanced techniques and skills are introduced. Instruction introduces a number of tools and safe operating procedures. Students will utilize the skills, techniques and tools taught in the class in the making of several projects. Skills learned will provide a strong foundation for subsequent woodworking classes.</p>			

# TECHNOLOGY EDUCATION

06390	<b>Drafting/CAD 1</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science and mathematics.			
06401/06402	<b>Math and Technology</b>	Rec Grade Lvl: 10-12	Credit/Sem: 0.5
Prerequisite: None			
This course is designed for students who desire to apply mathematics concepts in a problem-solving environment. During the course, students will apply theories of measurement, ratios, geometrical structures, algebraic equations, and graphical methods to develop an understanding of engineering topics that may include gears, aerodynamics, fuel consumption, material science, and mechanical advantage. The project goal is to develop an efficient vehicle capable of traveling several hundred miles on a gallon of gasoline. This course is team taught by the mathematics and technology departments and students earn credit in Mathematics and Technology (04691/04692).			
06410	<b>Drafting/CAD 2</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: 06390 or Consent of Instructor			
This course focuses on engineering graphics related subjects introducing the student to symbol libraries, industry standards, and sectioning techniques. Topics include coordinate systems, principles of machine processes and gearing, and the construction of 3-D wire frame models using CAD.			
06440	<b>Graphic Arts Design</b>	Rec Grade Lvl: 9-12	Credit/Sem: 0.5
Prerequisite: None			
This course will present information about computers used in the graphic arts field including computer hardware, software, terminology, and desktop publishing. Students will explore the traditional areas of paste-up, keylining, production of text, and artwork with the use of the computer. They will also have an opportunity to plan, design, and produce a finished printed product. This course is team taught by the art and graphic arts departments and meets the fine arts requirement when taken in conjunction with Graphic Design 1 (01260).			
06741/06742	<b>Computer Repair A+ Certification</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.75
Prerequisite: 09030 or 09060 or Division Head Approval			
Computer Repair A+ Certification is a two-semester district course offered at JHHS and RMHS and is open to all students in District 214. This is a PC based course designed to cover the following subjects: microcomputer fundamentals, PC hardware, Microsoft operating systems, troubleshooting, processors, system board devices, input/output devices, optical storage, video displays, printers, multimedia, networking, installation, configuration, upgrading, and diagnosing. Students successfully completing this course will have the opportunity to sit for the A+ Certification exam, which is a recognized industry certification for PC repair technicians. This course is recommended for average to above average students. Students receive a .75 high school elective credit per semester.			
06750	<b>CISCO Networking Basics</b>	Rec Grade Lvl: 11-12	Credit/Sem: 0.75
Prerequisite: 06742 or Division Head Approval			
This course is the first of two semester courses in the computer repair program course capstone sequence. The course content is regulated by industry standards and rewards the student, after successful completion of two semesters, with an industry certificate. Students complete the first two semesters at the high school site and receive articulated college credit. Students are then eligible to complete the remaining two semesters at Harper College and receive an additional certificate.			

# TECHNOLOGY EDUCATION

06760      **CISCO Routers & Routing Basics**

Rec Grade Lvl: 11-12

Credit/Sem: 0.75

Prerequisite: 06750

This course is the second of two semester courses in the computer repair program course capstone sequence. The course content is regulated by industry standards and rewards the student, after successful completion of two semesters, with an industry certificate. Students complete the first two semesters at the high school site and receive articulated college credit. Students are then eligible to complete the remaining two-semester courses at Harper College and receive an additional certificate.

06801/06802      **Robotics 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

This course will apply problem solving as a tool for the process of machine design. Students will use skills to create, design, and fabricate radio-controlled robots.

06811/06812      **Robotics 2**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 06801/06802

This course is an elective course that emphasizes the use of the theories, laws, and models of physics to solve problems in modern engineering applications. Students will learn the process needed to successfully design machines or solve specific problems. It will follow a format leading to an engineering competition.

06821/06822      **Robotics 3**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 06811/06812

This course is a continuation of Robotics 2 and will demand an understanding of the theories and laws of physics. Students in the class will be expected to apply theories and laws of physics in designing systems such as robotic arms, drive systems, lift systems, and material selections. This course is recommended for a student interested in a career in engineering. It will follow a format leading to an engineering competition.

06841/06842      **Robotics 4**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 06821/06822

This course is a continuation of Robotics 3 and will require a student to apply physics to design and building systems. Each student will go through an engineering model for product development: design, construct, and test. With the completion of a design, the student must use tools and materials to build a functioning prototype that will be tested and evaluated to see if it meets its specified function. It will follow a format leading to an engineering competition.

06881/06882      **PLTW-Introduction to Engineering Design**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: Interview Selection Process

Introduction to Engineering Design encourages students to be creative and apply decision-making and problem solving skills to specific design problems, using powerful computer hardware and software (Inventor) to develop 3-D models or solid renderings. Using a CAD (computer aided design) system, students explore the design process through creating, analyzing, rendering, and producing-model.

# TECHNOLOGY EDUCATION

06891/06892 **PLTW-Computerized Integrated Manufacturing**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 06882

Computerized Integrated Manufacturing builds on the solid modeling skills developed in Introduction to Engineering Design of prototyping, robotics, and automation. Students will solve problems by using computer controlled rapid prototyping and CNC equipment to construct models of their 3-D models. They will also explore the fundamentals of robotics, learning how this technology functions in an automated manufacturing environment. Finally, students will learn how to evaluate their design solutions before producing their prototypes.

06901/06902 **PLTW-Civil Engineering & Architecture**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 06882

This course provides an overview of civil engineering and architecture, emphasizing how they are related and interdependent. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as the roles of civil engineers and architects, project planning, site planning, building design, project documentation and presentation.

06911/06912 **PLTW-Digital Electronics**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 06882

Digital Electronics is a course in applied logic. Students will explore the digital circuits found in video games, watches, calculators, digital cameras, and thousands of other devices. They will investigate digital logic and how digital devices can control automated equipment and use industry standard, electronic design software to build circuits and to export designs.

06921/06922 **PLTW-Principles of Engineering**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 06892 or 06902 or 06912

Principles of Engineering is designed to help students understand career possibilities in engineering and engineering technology. Exploring engineering systems and manufacturing processes, students will continue to develop the problem solving skills used on the college level and in the work place. In addition, students will learn how engineers address concerns about the social and political consequences created by technological change.

06931/06932 **PLTW-Engineering Design & Development**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 06892 or 06902 or 06912

Applying the principles they learned in previous courses, students in this class will work in small teams to design and construct the solution to an engineering problem involving a wide range of engineering applications. Students will keep journals that will become part of their portfolios. Each team will be responsible for delivering progress reports and making final presentations to an outside review panel.

06941/06942 **PLTW-Aerospace Engineering**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 06932

Through hands-on engineering projects developed with NASA, students learn about aerodynamics, astronautics, space-life sciences, and systems engineering. This course includes the study of intelligent vehicles like the Mars rovers Spirit and Opportunity.

06950 **Media Technology 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

In this course students are introduced to the methods, software, and equipment used in television and radio broadcasting. Students will learn the basics of camera operation, lighting and audio techniques, and editing methods used in the production of video. Students will also learn to create multimedia presentations that can be used in other academic and vocational environments.



# WORLD LANGUAGE

07001/07002 **French 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

This course provides an introduction to the French language and culture with an emphasis on understanding and speaking elementary French phrases used in everyday conversation. Students first learn listening comprehension, pronunciation, and speaking skills. Reading and writing are learned through the study of previously introduced materials.

07021/07022 **French 2**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 07001/07002 or Equivalent

This course exposes students to more complex materials in grammar and the basic skills. Students broaden their skills in listening, comprehension, speaking, reading and writing. Listening activities are further developed with the use of video presentations and laboratory activities. In addition, students refine their cultural perception through exposure to French films, French contemporary songs, and French magazine articles.

07051/07052 **French 3**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 07021/07022

This course continues the work of French 2 although its content corresponds to a higher level of complexity or expression. The major focus is to expand the students' knowledge of basic grammatical concepts essential to the mastery of the French language. This class places additional emphasis on vocabulary development and cross-cultural comparisons through supplementary readings, film units, and laboratory activities.

07071/07072 **French 4**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 07051/7052

This course focuses on a series of mini-units of French practical vocabulary, advanced grammatical concepts, and cultural readings including French history, French geography, French arts, French technology, and aspects of daily life in France (such as cuisine, the media and holiday celebrations). This course, usually conducted entirely in French, develops competency in oral communication and improves writing skills using French literature and poetry.

07101/7102 **AP French Language**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 07051/7052 or 07071/07072 With Consent of Instructor

Students in this course follow an intensive regimen of speaking, reading comprehension, listening comprehension, and writing practice. They learn to write well-planned compositions on a variety of subjects and participate regularly in discussions on various topics. This course will prepare students to take the College Board Advanced Placement exam as well as college entrance examinations.

07121/07122 **German 1**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: None

This course focuses on an introduction to the German language and culture. Course work primarily emphasizes listening comprehension and conversation in controlled situations, but reading and writing are also important aspects. Students develop basic knowledge of German geography, cross-cultural differences, and current events are introduced.

# WORLD LANGUAGE

07131/07132    **German 2**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: 07121/07122

This class focuses on conversation and development of listening comprehension. Students will increase their knowledge of structural concepts and vocabulary gives them greater fluency in the language. This course integrates a more in-depth study of German geography, cross-cultural differences, and current events is integrated into the course.

07151/07152    **German 3**    Rec Grade Lvl: 10-12    Credit/Sem: 0.5

Prerequisite: 07131/07132

This course emphasizes conversation, listening comprehension, reading, and writing. Readings provide an introduction to German literature and history and a further intensification of the study of culture.

07171/07172    **German 4**    Rec Grade Lvl: 11-12    Credit/Sem: 0.5

Prerequisite: 07151/07152

This course continues to emphasize proficiency in the four basic skills of comprehension, speaking, reading, and writing through an in-depth study of German literature (and the arts), history, and culture.

07201/07202    **AP German**    Rec Grade Lvl: 11-12    Credit/Sem: 0.5

Prerequisite: 07151/07152

Students in this course follow an intensive regimen of speaking, reading comprehension, listening comprehension, and writing practice. Students will write well-planned compositions on a variety of topics and participate regularly in discussions of current events and ideas, continue to review vocabulary used in everyday situations, and study intricate grammatical structures. This course will prepare students to take the College Board Advanced Placement Exam as well as college entrance examinations.

07221/07222    **Mandarin Chinese 1**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: None

Students will become familiar with Chinese characters and the sound system, including accent and tone. They will understand, speak, read, and write in Chinese, and combine basic Chinese grammar and vocabulary and their application to spoken and written Mandarin Chinese. They will develop a working vocabulary and learn grammatical concepts. Also, the course will expose students to an understanding and appreciation of Chinese culture and they will be introduced to everyday life situations.

07231/07232    **Mandarin Chinese 2**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: 07221/07222

Students will expand their knowledge and skills in the areas of reading and writing in Chinese. They will continue to refine their speaking skills and increase their proficiency in listening comprehension and interactive conversation in Mandarin. In addition, they will broaden their vocabulary knowledge and learn increasingly complex grammatical patterns and concepts. An emphasis on the integration of language and cultural characteristics will be a critical component of the course.

07331/07332    **Spanish 1**    Rec Grade Lvl: 9-12    Credit/Sem: 0.5

Prerequisite: None

This course is an introduction to the Spanish language and culture with an emphasis on understanding and speaking the language. Students will develop listening, speaking, reading, and writing skills and acquire topical vocabulary and knowledge of elementary grammar. This class also provides insight into Hispanic culture (geography, cross-cultural differences, and current events).

# WORLD LANGUAGE

07341/07342 **Spanish 2**

Rec Grade Lvl: 9-12

Credit/Sem: 0.5

Prerequisite: 07331/07332 or Equivalent

This course will expand the listening, speaking, reading, and writing skills that were introduced in Spanish 1. Writing, reading for comprehension, vocabulary acquisition, cultural awareness, career awareness, and learning and study skills are given increased emphasis.

07381/07382 **Spanish 3**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: 07351/07352 or 07361/07362 or Teacher Recommendation

This course is for those students who wish to expand their knowledge of grammatical concepts essential to the mastery of the Spanish language, and who wish to reinforce the skills introduced in Spanish 1 and 2. Emphasis is placed on developing composition skills and speaking the language in non-structured situations, including language lab activities. Literature, the arts, and history are introduced.

07401/07402 **Spanish 4**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 07381/07382

This course provides a study of a variety of literary periods and styles of Hispanic literature with an emphasis on oral communication. Novels, plays, poetry, and contemporary short stories are studied, giving the student more advanced insight into Hispanic civilization and literature. A systematic grammar review is provided at this level. Continued emphasis is placed on developing composition skills. Opportunities may be provided for students to pursue their own interests through special projects, including language lab activities.

07431/07432 **AP Spanish Language**

Rec Grade Lvl: 11-12

Credit/Sem: 0.5

Prerequisite: 07381/07382 or 07401/07402 With Consent of Instructor

Students in this course are submitted to an intensive regimen of practice of speaking, reading comprehension, listening comprehension, and writing. Students will write well-planned compositions on a variety of subjects. Students participate regularly in discussions of current events and ideas, as well as continue to review vocabulary used in everyday situations and study complex grammatical structures. This course will prepare students to take the College Board Advanced Placement Examination as well as college entrance examinations.

07551/07552 **American Sign Language**

Rec Grade Lvl: 10-12

Credit/Sem: 0.5

Prerequisite: None

This course provides students with an introduction to American Sign Language and to the culture of deaf people in America. Course emphasis will be on learning to understand signed conversation and properly signing conversational interactions. Students gain insight into American deaf culture and history is provided through class discussion, text materials, audio-visual presentations, and guest presenters. Students explore a variety of career options that require, or would benefit from, ability to communicate easily with deaf persons. Students who successfully complete this course are eligible to take the course Deaf Culture offered through the Hearing Impaired program at JHHS or the Sign Language Studies program at Harper College. This course may fulfill the foreign language entrance r

*Please be advised of the following corrections to the 2010-11 Academic Handbook.*

### **PASS/NO CREDIT (P/NC) AND AUDIT (AT) OPTION**

Students may take the Pass/No Credit or Audit option in lieu of regular grading in elective courses and courses taken to meet the information processing graduation requirement. (The option of taking information processing Pass/No Credit will be discontinued beginning with the graduating class of 2014.) Students receiving a "P" grade will receive the appropriate course credit. No course credit is awarded for Audit courses. Students are expected to discuss their reasons for taking the Pass/No Credit or Audit option with their parents, counselor, and the teacher of the course. Colleges and universities may or may not accept Pass/No Credit courses to meet admission requirements. The required forms for Pass/No Credit or Audit grading options are available in each school's counseling office. Students receiving an "NC" grade are ineligible for honor roll.

#### **Guidelines**

1. Students must declare their intent to take the Pass/No Credit or Audit option before the first day of the seventh week of the semester. (Wheeling High School students must declare their intent before the end of the first 3.5 weeks of the term.)
2. Students must be enrolled in at least six full-credit bearing courses, or an equivalent, under regular grading procedures to be eligible for the Pass/No Credit or **Audit** option (except during summer school). If a student drops the sixth credit-bearing course, the Pass/No Credit or **Audit** course reverts to normal grading.
3. The Pass/No Credit or Audit option does not apply to specific courses required for graduation (e.g., U.S. History, Biology) with the exception of course #05510 Information Processing **for graduating classes 2011, 2012, and 2013.**
4. Students must meet all course prerequisites.
5. The grading standards of the class apply, and students must meet the same minimum standards to pass as other students in the class.
6. Either "P" (pass), "NC" (no credit), or "AT" (audit) are recorded on the student's report card and transcript.
7. Grades "NC" and "AT" are not used in computing grade point averages and do not count toward earning academic achievement points. However, the "P" grade in a credit-bearing course does count toward earning academic credit and the academic achievement point.
8. Students must first receive the approval, by signature, of both their counselor and the teacher of the course and then obtain a signature of approval from their parent/guardian by the deadline defined above.
9. A copy of the completed request form must be submitted to the school administration and the registrar.
10. Students who drop or are dropped from a course between the 16<sup>th</sup> and 30<sup>th</sup> school days (not including holidays, institute, and non-attendance days) will have the course title and a grade of "W" (withdrawn) recorded on their transcript. (Note: "W" grades are not included in computing grade point average and do not affect honor roll eligibility; but does affect full-time status).